

ATTACHMENT FOR NEW ABSTRACT

Abstract

Method of automated measurement of the ohmic rotor resistance (R_r) of an asynchronous machine (1) controlled via an inverter (8) while being acted upon by a non-rotating field, the method involving a. measuring the ohmic stator resistance (R_s), the leakage inductances ($L_{\sigma s}$, $L_{\sigma r}$) and the main inductance (L_m) of the asynchronous machine, b. leading a testing signal (U_{sa}) being formed by a predetermined direct signal with a superimposed alternating signal corresponding approximately to the nominal slip frequency (f_s) of the asynchronous machine (1), c. measuring the amplitude and the phase (φ) of the phase signal (I_{sa}) resulting from the testing signal, and d. calculating the ohmic rotor resistance (R_r) from the measured values according to a) and c).